

PRESIDENT'S MESSAGE

by Paul Croft

Thanks to Mike Vescio, Steve Todd and Bryan Karrick and their program committee members, the 29th Annual Meeting of the National Weather Association, set for 16-21 October in Portland, Oregon, looks like it's going to be a great success. The preliminary agenda is printed in this issue for those planning to attend and for all interested in seeing the variety of studies being accomplished by members across the country. Presentations and workshops are also scheduled to help train us on the use of new technologies, new applied research and to remind us of the basics of operational meteorology. Corporate members will also be present to show us the latest in their products and services. Well-known leaders in our community will also present thoughts on the future of operational meteorology and be open to questions and discussion.

I hope to see many of our members there, but I realize it is difficult for most to attend and that is why we only count on about ten percent of our 3,000 plus members to participate each year. We'll continue to keep the Annual Meeting registration fees as low as possible and move the meeting location each year to hopefully give many members the opportunity of attending at least once every three years. If you can't get to Portland, plan now to attend the next meeting to be held in mid-October 2005 at the Adam's Mark Hotel near the Arch in Saint Louis, Missouri.

Speaking of moving around the country – I'm happy to announce that I've accepted a Professor of Meteorology position at Kean University and during August moved from the University of Louisiana at Monroe to Union, New Jersey. You can contact me now at (908) 737-3720 or via e-mail at President@nwas.org or pcroft@kean.edu.

I'll take the opportunity here to send best wishes to all college/university faculty, staff and students for a great new school year! I know Jessica Fieux (FSU), Owen Shieh (Cornell) and Ashley Marie Hayes (JSU) will be starting off this semester a little happier after winning NWA scholarships. It was a great pleasure for me to send them letters of congratulations. I know the NWA will continue to provide scholarships and hope we can increase the number of them in the years ahead.

At this time of year, our Executive Director purges the membership database of those that have not renewed for the year. He briefed me that we have lost ten percent of our members, which is typical of many associations. Of course, we hope to gain more than ten percent back in order to continue to grow. To help do that, we are offering a "back-to-school Special". Prospective members are invited to join for the period 1 September 2004 through 31 December 2005 at a special rate of \$34 (\$17 for full-time students and retirees). The membership application on the NWA Web site shows that special and any individuals that have application brochures can write that special in. One of the benefits of membership can be secured next month by attending the Annual Meeting at reduced rates.

To those members (including 218 charter members joining in 1975 and 76) **that did renew, I thank you for your commitment to the organization and its objectives and to your profession.** Belonging to a professional association helps you and helps the profession move ahead. At the Annual Awards Luncheon on 20 October, I'll announce the award winners, student scholarship and teacher grant winners — that couldn't happen without a good membership base. I hope many of you can be in attendance at that luncheon, but if you can't, please know that the award recipients will state their appreciation to all members — and, I will thank all of you again.

- Yours in Service – Paul Croft

IMPORTANT DATES AND EVENTS

- 15 September 2004** – Deadline to reserve a room at the Doubletree Hotel in Portland for the NWA Annual Meeting at reduced rates (503-281-6111) (pg 2)
- 21-23 September 2004** – User Forum on Urban Meteorology
Rockville, MD (www.ofcm.gov)
- 4 October 2004** – Blue Hill Observatory in Milton, MA will host first day of issue of the Cloud Stamps (www.bluehill.org)
- 8 October 2004** – Deadline to preregister for the NWA Annual Meeting at reduced rates (www.nwas.org)
- 13-15 October 2004** – 8th Annual High Plains Conference,
Goodland, Kansas (www.highplains-amsnwa.org)
- 16-21 October 2004** – NWA 29th Annual Meeting (pg 2)
- 6 November 2004** – 5th Annual Southern New England
Weather Conference, Brookline, MA (www.bluehill.org)

BROADCAST COMMITTEE NEWS

People, Pileus and Pondering in Portland...

First of all let me thank all of you for the kind comments about the "Ingredients for a Great Weathercast" series in the past four newsletters. Those articles are only a small portion of the information I have to offer, so if you want to get the full story, I will have a much more detailed version available for download at Website www.ApuzzoWeather.com. We all have greatness within us, and I will help you bring it to your daily weathercasts.

Once again a summer has flown by and we're looking ahead to the fall and winter of 2004. Before we say goodbye to summer make a promise to yourself, and keep it — "*I PROMISE TO GO TO THE 29th NWA ANNUAL MEETING IN PORTLAND, OREGON.*" It's hard to describe the experience of attending this yearly gathering, since it is unique to each person, so let me take a few minutes to paint a picture for you.

I have had a love for weather ever since I was 7 years old. Back in the 1960s and 70s the only way to satisfy my desire for knowledge was to read books or watch the local weatherman, who was generally not a meteorologist. I read, stared at the sky, watched the Chicago weathermen, and made my own little forecasts on the front porch of our house in the western suburbs of the Windy City. Now I still read, watch The Weather Channel, stare at the sky and make my forecasts from my home office in Cincinnati. Today, there are many more opportunities to learn than I ever had as a child, and the wonderful world of weather requires us to continue our education every day and every year. The Internet is a huge resource, but lacks a personal touch. However, many years ago I discovered an event that literally changed my life.

When I attended my first NWA Annual Meeting, I was nervous. I didn't know anyone and felt sure I would be around a bunch of scientists who would make me feel inadequate about my education. In just one week, ten years ago in Salt Lake City, I made new friends that I still have today. Meteorologists of all skill levels welcomed me and I was even motivated to become more involved in the NWA. Today, as the Broadcast Meteorology Committee Chair, I write articles that are read by hundreds of meteorologists around the world. The annual meeting has grown considerably since 1994. We now have a fundraising golf outing on Saturday and a tape swap on Sunday night that is extremely well attended. I want to meet even more friends and make some new memories, so join me and hundreds of your colleagues this October in Portland. It can change your life too. Oh, in the title I used the word Pileus for alliteration, but if you're wondering, it's a thin "cap cloud" often seen on towering cumulus or cumulonimbus clouds, or at the peak of tall mountains.

Send your thoughts to me at rapuzzo@fuse.net. Please note my new e-mail address.

- Rich Apuzzo, Broadcast Meteorology Committee Chair

EFFECTIVE PRESENTATION TIPS

Are you preparing a presentation for the NWA Annual Meeting or another conference? If yes, Alan Sealls, a NWA Councilor and broadcast meteorologist has created a Web page that lists tips for creating a great presentation.

The page is titled, "*Science Conference Presenters Tips*" and includes ideas for keeping the audience engaged, tips for creating clear and pleasing graphic slides, what not to do when giving a presentation, and how to prepare for worst case scenarios. The Web page is located at: weatherthings.com/presenter.html.

Other presentation tips can be found on the NWA Web site on the Conferences and Special Events page: www.nwas.org/meetings/meetings.html

NWA ANNUAL MEETING AGENDA

This preliminary agenda (as of 3 September 2004) is provided for members planning to attend and as crossfeed to all readers interested in knowing the variety of studies being done in the public, academic and private sectors. The agenda will be updated periodically on the NWA Web site (www.nwas.org).

The 29th Annual Meeting of the National Weather Association will be held 16-21 October 2004 at the DoubleTree Hotel & Executive Meeting Center Portland – Lloyd Center, Portland, Oregon. Attendees can register at the meeting or pre-register using the information in the July-August NWA Newsletter or the information on the NWA Web site (www.nwas.org).

To all prospective attendees -- please reserve a room at the DoubleTree Hotel-Lloyd Center by 15 SEPTEMBER to take advantage of reduced rates (503-281-6111), and preregister for the Annual Meeting before 8 OCTOBER to obtain reduced rates (www.nwas.org). Check in at the NWA Registration and Information desk at the DoubleTree Hotel as soon as possible after you arrive to obtain nametags and updated agenda.

Saturday, 16 October 2004

Third Annual Golf Classic: Betsy Kling is organizing the third annual NWA golf outing for the enjoyment of members and guests and to raise funds for scholarships as she did so successfully the last two years. The Golf Outing with tee times beginning at 11:00 AM will be held at the Heron Lakes Great Blue Golf Course in Portland - a beautiful course with great opportunities to win and be challenged. Several members have signed up already and Betsy wants to make sure EVERYONE knows they are most welcome to play golf even if not attending the Annual Meeting. Any profits from the event will benefit NWA educational scholarships. Total cost is \$85 for greens fees, golf cart, the use of a driving range with unlimited balls, a boxed lunch and prizes*. Reserve your tee time by contacting Betsy at BKLING@wkyc.gannett.com or contact the NWA Office at (434) 296-9966; NatWeaAsoc@aol.com by the first of October. *Extra prizes will be used for a raffle during the Annual Meeting; prizes will be given away at the Awards Luncheon on Wednesday, 20 October.

Saturday, 16 October 2004 *continued*

1000 AM NWA Registration and Information Desk opens in the foyer of the Multnomah Room (First Level of the Hotel)

1000 AM – 0800 PM Exhibitors can set up their booths in the Pacific NW Ballroom (First Level of the Hotel)

0800 PM NWA Registration and Information Desk closes for the day.

Exhibitors anticipated: AccuWeather, Inc.; AWS Convergence Technologies, Inc./ WeatherBug; Baron Services; National Weather Service; Northrop Grumman; Oregon Scientific; Science Applications International Corp (SAIC); US Environmental Protection Agency – AIRNOW; Vaisala, Inc.; Weather Central, Inc.; Weather Metrics; *Weatherwise* Magazine; WSI Corp. Their representatives will also be providing individual and group training to clients as time permits – please contact their representatives in advance. Exhibit booths will be open daily Sunday through Wednesday morning for viewing. Exhibit applications and information are available from the NWA office at (434) 296-9966 or NatWeaAsoc@aol.com.

Sunday, 17 October 2004 - Broadcaster Workshop

0730 AM NWA Registration and Information Desk opens in the foyer of the Multnomah Room (First Level of the Hotel).

BROADCASTER WORKSHOP will be in the Multnomah Room (First Level of the DoubleTree Hotel). Presentations and workshops as shown below are directed at Television and Radio Broadcasters and those in related fields, but all individuals interested are most welcome to register, attend and participate.

0830 AM Welcoming Remarks. NWA President Dr. Paul J. Croft, Professor of Meteorology, Kean University, Union, New Jersey, and Broadcaster Workshop Program Chair, Bryan Karrick of KCCI-TV, Des Moines, Iowa (bkarrick@hearst.com)

0835 AM Opening Remarks. NWA Broadcast Meteorology Committee Chair, Rich Apuzzo, WXIX-TV, Cincinnati, OH.

0840 AM Public Alert: Delivers Emergency All-Hazard Warnings Everywhere, All the Time. Anne Hoffman, Oregon Scientific, Tualatin, OR.

0855 AM NWS Fire and Public Weather Service Update: FY05 Initiatives. Richard Okulski, NOAA/NWS/OCWWS, Silver Spring, MD.

0910 AM Northwest Weather in Pictures. Matt Zaffino, KGW-TV, Portland, OR.

0925 AM Pacific Northwest Weather and the Role of the Columbia River Gorge? Ted Buehner, NOAA/NWS Forecast Office, Seattle WA, and Tyree Wilde, NOAA/ NWS Forecast Office, Portland, OR.

0955 AM Vendor Presentations

1015 AM Coffee Break; Exhibits Open in the Pacific NW Ballroom

1045 AM AIRNow and the Air Quality Index: Helping you Alert Viewers of Current and Forecast Air Quality Conditions. Timothy S. Dye, Vice President, Meteorological Programs and Public Outreach, Sonoma Technology, Inc., Petaluma, CA.

1145 AM The Television Meteorologist's Role in the Commercial Weather Industry. Dr. Joel N. Myers, Dr. Barry Lee Myers, and Michael Steinberg, AccuWeather, Inc., State College, PA.

1200 Noon Lunch on your own; Exhibits open in the Pacific NW Ballroom (committee is looking into having luncheon choices available in exhibit area)

0130 PM Severe Weather Workshop. Daniel McCarthy (NWA Councilor), NOAA/NWS/Storm Prediction Center, Norman, OK.

0230 PM A Positive Reinforcement Approach to Severe Weather Safety Education. Daniel J. Miller and Richard D. Smith, NOAA/NWS Forecast Office, Norman, OK.

0245 PM Maintaining Operational Readiness in a Warning Environment: Development and Use of the Situational Awareness Display System (SADS). Liz Quotone (NWA Vice President), NOAA/NWS/WDTB, Norman, OK, David L. Andra and Michael P. Foster NOAA/NWS Forecast Office, Norman, OK, and Ed Mahoney, NOAA/NWS/WDTB, Norman, OK.

0300 PM Vendor Presentations

0315 PM Refreshment Break; Exhibits Open in the Pacific NW Ballroom

0345 PM Inside Information: A New NWS Communication Tool and its Benefits to the Media. Kristine Kahaneck, Chief Meteorologist, KTVT-TV, Dallas-Ft. Worth, TX, and Gary Woodall, NOAA/NWS Forecast Office, Ft. Worth, TX.

0400 PM The Perpetual Storm: A Case Study of the 21 May 2004 Great Lakes Derecho. Kirk Lombardy, NOAA/NWS Forecast Office, Cleveland, OH, and Betsy Kling (NWA Councilor), WKYC-TV, Cleveland, OH.

0415 PM Probability Outlooks: Benefits and Correct Usage. Daniel McCarthy (NWA Councilor), NOAA/NWS/Storm Prediction Center, Norman, OK.

0430 PM The Iowa Storm Chase: May 2004. John McLaughlin (NWA Past President), Chief Meteorologist, KCCI-TV, Des Moines, IA.

0445 PM Meteorological Conditions Surrounding the Attempted Landing of a Passenger Plane During a Tornado Outbreak. Jay Trobec, Chief Meteorologist, KELO-TV, Sioux Falls, SD.

0500 PM Weather and Management. *An open Q & A on the corporate budget pinch and ways for weathercasters to get around it. Then, how to convince management of the benefits of continuing weather education and the importance of the NWA Seal of Approval.*

0530 PM Dinner on Your Own; NWA Registration and Information Desk and Exhibits Close for the Day.

0700 PM ANNUAL TAPE SWAP. Refreshments sponsored by WSI Corporation will be served after 8:00 PM. [Attendees: please submit your VHS tapes to the NWA Registration and Information Desk volunteers by 05:00 PM & ensure that your name, address, and station are listed on the tape. Tapes not shown because of time constraints will be able to be critiqued by a small group of mentors at scheduled times during the meeting – a sign-up schedule will be at the NWA Information and Registration Desk]

1030 PM NWA Broadcaster Workshop Concludes.

Monday, 18 October 2004 – Annual Meeting General Sessions (Multnomah Room unless otherwise specified)

0730 AM NWA Registration and Information Desk opens in the foyer of the Multnomah Room (First Level of the Hotel).

0800 AM Welcoming Remarks. NWA President, Paul J. Croft, Kean University, Union, NJ, and Program Co-Chairs: Mike Vescio, NOAA/NWS Forecast Office, Pendleton, OR, and Steve Todd, NOAA/NWS Forecast Office, Portland, OR.

0810 AM Welcome to Portland. Miguel Ascarrunz, Director of Emergency Management, Portland, OR.

0820 AM Keynote Address. Brigadier General David L. Johnson USAF (Ret.), NOAA Assistant Administrator for Weather Services and Director, National Weather Service, Silver Spring, MD

0900 AM Keynote Address. Vickie Nadolski, NWS Western Region Director, NOAA/NWS, Western Region Headquarters, Salt Lake City, UT.

0930 AM Keynote Address: Building a National Mesonet via COOP Modernization: The First Steps? Dr. Kenneth Crawford (NWA Past President) and Steven Pritchett, NOAA/NWS/Office of Science and Technology, Silver Spring, MD.

1000 AM *Coffee Break; Exhibits Open in the Pacific NW Ballroom*

SESSION I - BROADCAST METEOROLOGY

Session Chair: Bryan Karrick, KCCI-TV, Des Moines, IA.

1030 AM Northwest Weather in Pictures. Matt Zaffino, KGW-TV, Portland, OR.

1045 AM An Internet Site for Professional Meteorologists. Kenneth Reeves, James T. Candor, and Michael Steinberg, AccuWeather, Inc., State College, PA.

1100 AM 24/7 Multimedia Coverage. Kenneth Reeves, James T. Candor, and Michael Steinberg, AccuWeather, Inc., State College, PA.

1115 AM The ADONIS MicroCast® Forecast Model: Advanced Local Notification and Weather Storytelling. Michael Thomas, Weather Central, Inc., Madison, WI.

1130 AM Newspaper Weather: A Content Analysis Study of Newspaper Weather Pages. Richard W. Dixon, Texas State University, San Marcos, TX.

1145 AM Hole Punch Clouds - The Uncloud. Alan Sealls (NWA Councilor), WKRG-TV, Mobile, AL.

1200 Noon *Lunch on Your Own; Exhibits Open in the Pacific NW Ballroom*

SESSION II - FIRE WEATHER/AIR QUALITY

Session Chair: Phillip Breuser, Professional Meteorologist, North Bend, WA.

0130 PM Current and Future Geostationary Fire Monitoring with the WF_ABBA. Christopher C. Schmidt, Cooperative Institute for Meteorological Satellite Studies, University of Wisconsin-Madison, Madison, WI.

0145 PM Weather and Large Fire Potential, Oregon Wildfires of Late June 2003. Coleen Decker, NOAA/NWS Forecast Office, Boise, ID, and John Saltenberger, NOAA/NWS Forecast Office, Portland OR.

0200 PM A Local Severe Fire Weather Pattern in the Northeast Cascades. Julia E. Rutherford, NOAA/NWS Forecast Office, Juneau, AK.

0215 PM Similarities Between Three Cases of High Wind in Washington's Okanogan Valley. Andrew Haner, NOAA/NWS Forecast Office, Seattle, WA.

0230 PM Implementation of a National Air Quality Forecast Capability. Dr. Paula Davidson and Dr. John L. Hayes, NOAA/NWS/Office of Science and Technology, Silver Spring MD, Kenneth Carey, Mitretek Systems, Inc., Falls Church, VA.

0245 PM AIRNow and the Air Quality Index: Helping You Alert Viewers of Current and Forecasted Air Quality Conditions. Richard (Chet) Wayland and John White, U.S. EPA, Research Triangle Park, NC, and Timothy Dye, Craig Anderson, and Alan Chan, Sonoma Technology, Inc., Petaluma, CA.

0300 PM *Refreshment Break; Exhibits Open in the Pacific NW Ballroom*

SESSION III - AVIATION METEOROLOGY

Session Chair: Carolyn Kloth, NOAA/NWS/Aviation Weather Center, Kansas City, MO.

0330 PM Development of a New En-route Graphical Weather Forecast for Aviation. Ronald J. Olson, NOAA/NWS/Aviation Weather Center, Kansas City, MO.

0345 PM Space Shuttle Landing Site Meteorological Upgrades Before Return-to-Flight. Tim Garner and Dan G. Bellue, NOAA/NWS/Spaceflight Meteorology Group, Houston, TX, Maj. Kyle Bellue, USAF 45WS/SYR DDMS-W, Patrick AFB, FL, and John Madura, NASA, Kennedy Space Center, FL.

0400 PM Prototype Aviation Collaborative Effort (PACE) Providing Tactical Decision Aids to FAA Air Traffic Managers. Thomas Amis, NOAA/NWS/CWSU, Fort Worth, TX, and Dennis M. Rodgers, NOAA/Forecast Systems Laboratory, Boulder, CO.

0415 PM Describing and Demonstrating the Application Version of ADDS. Lynn Sherretz, NOAA/Forecast Systems Laboratory, Boulder, CO, and Gregory Thompson, NCAR Research Application, Boulder, CO.

0430 PM Weather Theory For Pilots. Terry Lankford, FAA Retired and Author, Murphys, CA.

0445 PM A Proposal for More Applicable Performance Measures for Terminal Aerodrome Forecasts. Todd P. Lericos, NOAA/NWS Forecast Office, Spokane, WA.

0500 PM Special Award presentation. NWA President Paul J. Croft.

0530 PM ICE BREAKER and POSTER SESSION I in the Pacific NW Ballroom (time to view exhibits and posters, meet other attendees and enjoy refreshments)

POSTERS:

P1.1 Volcanic Ash Detection Capabilities Using GOES-12. Gary Ellrod, NOAA/NESDIS, Camp Springs, MD, and Anthony J. Schreiner, CIMSS/University of Wisconsin-Madison, Madison, WI.

P1.2 New Satellite Data Tools for Precipitation Analyses and Forecasts. Sheldon J. Kusselson, NOAA/NESDIS, Camp Springs MD

P1.3 A Comparison of Multi-sensor Hail Detection Techniques. Travis Smith, CIMMS/Univ of OK and NOAA/NSSL, Norman, OK, Greg Stumpf CIMMS/ Univ of OK and NOAA/NWS/MDL, Norman, OK, and James Hocker, CIMMS/Univ of OK and NOAA/NSSL, Norman, OK.

P1.4 Watching Your Back Side: The Importance of Storm Cell Rear-edge Motion. Neil I. Fox and Elizabeth A. Hatter, University of Missouri-Columbia, Columbia, MO.

P1.5 GIS Data and Activities at the West Gulf River Forecast Center. Keith Stellman and Paul McKee, NOAA/NWS/WGRFC, Fort Worth, TX.

P1.6 Calculated Vertical Motions in a Southern Hemisphere Blocking and Cyclone Event. Douglas E. Tilly, Anthony R. Lupo, and Christopher Melick, University of Missouri-Columbia, Columbia, MO.

P1.7 Interannual Variability of Tropical Cyclones in the Southern South China Sea. Zabani Md. Zuki and Anthony R. Lupo, University of Missouri-Columbia, Columbia, MO.

Monday, 18 October 2004 *continued*

- P1.8 The Climate Data Retrieval System.** John P. Gagan, NOAA/NWS Forecast Office, Jackson, MS and Steve A Listema, NOAA/NWS Forecast Office, Sterling, VA.
- P1.9 Weather Modernized: From the Gulf War to Operation Iraqi Freedom.** Kevin M. Starr, Fritz VanWijngaarden, Richard S. Penc, Michael Bannister, and Alan E. Ron, Northrop Grumman Mission Systems, Bellevue, NE.
- P1.10 Updated Tornado Trends Across the U.S.** Daniel McCarthy (NWA Councilor), and Joseph T. Schaefer (NWA Past President), NOAA/NWS/Storm Prediction Center, Norman, OK.
- P1.11 Students Future SECURED.** Paul J. Croft (NWA President), Kean University, Union, NJ.
- P1.12 WMSI Progress and Developments.** Kenneth L. Pryor and Gary P. Ellrod, NOAA/NESDIS, Camp Springs, MD.
- P1.13 Examining Instability in Midwestern Snowstorms with Lightning and Thunder.** Chris J. Melick, Rashida S. Thomas, and Patrick S. Market, University of Missouri-Columbia, Columbia, MO.
- P1.14 On Methods of Precipitation Efficiency Estimation.** Brian P. Pettegrew, Patrick S. Market, and Neil I. Fox, University of Missouri-Columbia, Columbia, MO, and Jon Zeitler, NOAA/NWS Forecast Office, New Braunfels, TX.
- P1.15 Development of Statistically-Based Climatology for the Support of Local Aviation Forecasting.** Christopher C. Buonanno and Paul Iniguez, NOAA/NWS Forecast Office, Little Rock, AR.
- P1.16 A Very Long-lived Tornado in Central Indiana.** David Tucek, John Kwiatkowski and Sally Pavlow, NOAA/ NWS Forecast Office, Indianapolis, IN.
- P1.17 Discovery of Annual and Seasonal Precipitation Micro-Climates Within South Louisiana.** Suzanne Van Cooten, NOAA/NWS/National Buoy Data Center, Stennis Space Center, MS, and Donald Barbe, University of New Orleans, New Orleans, LA.
- P1.18 Introducing the WDTB Research and Training (WRAT) Lab: Motivation, Design, and Configuration.** Nicki L. Levit, Xuechao Yu, Kenyon R. Hoggard, Nazir A. Mohamad Said, Cooperative Institute for Mesoscale Meteorological Studies (CIMMS)/ University Oklahoma and NOAA/NWS/ Warning Decision Training Branch (WDTB) Norman, OK.
- P1.19 Capitalizing on Cloudscapes and other Cloud Opportunities as Teaching Resources.** H. Michael "Mike" Mogil, Editor-in-Chief, Science Weekly, Inc., Rockville, MD.
- P1.20 Building Your Audience and Revenue with Wireless Technology.** Kenneth Reeves, James T. Candor, Douglas Yule, and Michael Steinberg, AccuWeather, Inc., State College, PA.
- P1.21 Interannual Variability of Surface Longwave Radiation over the African Continent as Derived from AVHRR.** Kristopher B. Karnauskas, University of Maryland, College Park, MD.
- P1.22 The Prediction of Non-Surface-Based Thunderstorms in the Pacific Northwest.** Ronald Miller, NOAA/NWS Forecast Office, Spokane, WA.

0730 PM *Icebreaker and Presentation sessions close for the day; Dinner on your own.*

A Broadcasters' Dinner after the Icebreaker & Poster Session is being planned. The Broadcast Meteorology Committee Chair will announce specifics at the meeting.

Tuesday, 19 October 2004 - Annual Meeting General Sessions (Multnomah Room unless otherwise specified)

- 0730 AM** NWA Registration and Information Desk opens in the foyer of the Multnomah Room (First Level of the Hotel).
- 0800 AM** *Map Briefing*

SESSION IV - SEVERE WEATHER I

Session Chair: Steven J. Weiss (NWA President-Elect), NOAA/NWS/Storm Prediction Center, Norman, OK.

- 0815 AM The National Severe Storms Laboratory: 40 Years Young and Going Strong.** Rodger A. Brown, NOAA/NSSL, Norman, OK, and Keli Tarp, NOAA Public Affairs, Norman, OK.
- 0830 AM Significant Severe Soundings From the Western States.** Jeffrey P. Craven (NWA Councilor), NOAA/NWS Forecast Office, Jackson, MS.
- 0845 AM Severe Thunderstorm Environments in the Northern Intermountain Region and Northern Rockies.** Jeffery Evans, NOAA/NWS/Storm Prediction Center, Norman, OK.
- 0900 AM An Unusual "Dry" Downburst Damaging Wind Event in North Carolina: 7 March 2004.** Gail I. Hartfield and Brandon Locklear, NOAA/NWS Forecast Office, Raleigh, NC, and Michael Brennan, North Carolina State University, Raleigh, NC.
- 0915 AM The Perpetual Storm: A Case Study of the 21 May 2004 Great Lakes Derecho.** Kirk Lombardy, NOAA/NWS Forecast Office, Cleveland, OH, and Betsy Kling (NWA Councilor), WKYC-TV, Cleveland, Ohio.
- 0930 AM Lightning Casualties: Updated Frequencies and Human Factor Concepts.** Ron Holle, Holle Meteorology & Photography, Oro Valley, AZ.
- 0945 AM Combining Lightning with Satellite Data for Analysis and Prediction.** Roderick A. Scofield (NWA Past President) and Robert J. Kuligowski, NOAA/NESDIS, Camp Springs, MD, and Shuang Qiu, QSS Group, Inc., Lanham, MD.

1000 AM *Coffee Break and POSTER SESSION II* in the exhibit area (Pacific NW Ballroom)

POSTERS:

- P2.1 WSR-88D Reflectivity Quality Control Using Horizontal and Vertical Reflectivity Structure.** Jian Zhang, Shunxin Wang, and Beth Clarke, CIMMS/University of Oklahoma, Norman, OK.
- P2.2 Using the Serp Analysis Tool to Remove Graphical Forecast Boundary Differences.** Les Collin, NOAA/NWS Forecast Office, Boise, ID.
- P2.3 Anomalous Wet Summers in the Southwestern Cape and Relationships with Northeastern South African Rainfall.** Linda Phalatshe, South African Weather Service, Pretoria, South Africa, and Chris Reason, University of Cape Town, Cape Town, South Africa.
- P2.4 An Automated Algorithm for Radar Beam Occultation.** Carrie Langston and Jian Zhang, CIMMS/University of Oklahoma, Norman, OK.
- P2.5 Highlights from the Third GOES-R Users' Conference.** James J. Gurka, NOAA/NESDIS, Silver Spring, MD, Timothy J. Schmit NOAA/NESDIS/ORA, Madison, WI, and Dick Reynolds, Short and Associates, Annapolis, MD.
- P2.6 Initiating a New Partnership for the 21st Century: NOAA/NWS and JSU Increasing Diversity in Atmospheric Science Through Research, Application, and in Partnership with the NWS (IDAS-RAP).** John L. Shoemake, Dr. R.S. Reddy, Lyvon Kennard and Marque Jones, Jackson State University, Jackson, MS and Jeffrey P. Craven (NWA Councilor), NOAA/NWS Forecast Office, Jackson, MS.
- P2.7 The NOAA/NWS Diversity Student Research Participation Summer Internship Program Administered by the Department of Energy's Oak Ridge Institute for Science and Education (ORISE).** John L. Shoemake, Monesa Watts, Rondah Smart, Brandon DeShields, and Kenneth Hair, Jackson State University, Jackson, MS.
- P2.8 A Comprehensive Ceiling and Visibility Climatology for Eastern Washington and Northern Idaho.** Todd P. Lericos, NOAA/NWS Forecast Office, Spokane, WA.

Tuesday, 19 October 2004 *continued*

P2.9 The SPC Enhanced Thunderstorm Outlook Program. Steven J. Weiss (NWA President-Elect), David R. Bright, Phillip D. Bothwell, and Gregory W. Carbin, NOAA/NWS/ Storm Prediction Center, Norman Oklahoma.

P2.10 Mesoscale Modeling Investigation of a Severe Weather Event Over Northwest Mississippi Using 3DVAR Assimilation Technique and MODIS Satellite Data. Dr. R.S. Reddy, John L. Shoemaker, Alexander Schartz, Ashton Robinson, and Markeitta Benjamin, Jackson State University, Jackson, MS.

P2.11 AWIPS at the Spaceflight Meteorology Group: Using a NWS Forecast Office-based System for Worldwide Forecasts. Doris Rotzoll and Timothy Oram, NOAA/NWS/ Spaceflight Meteorology Group, Houston, TX.

P2.12 MM5 Simulation of the April 1983 Pearl River Flood Event. Georgette Holmes, Monesa Watts, and Dr. R.S. Reddy, Jackson State University, Jackson, MS.

P2.13 A High Resolution Nearshore Wave Model and Bar Forecast Model for Northwestern California. Troy Nicolini, NOAA/NWS Forecast Office, Eureka, CA, Greg Crawford, Humboldt State University, Arcata CA, and Erick Rogers, Naval Research Lab, Stennis Space Center, MS.

P2.14 Infrared Geostationary Ozone Detection. Christopher C. Schmidt and Jun Li, CIMSS/University of Wisconsin-Madison, Madison, WI.

P2.15 11 Inches of Snow From an Alberta Clipper?! Post-analysis of an Unlikely Heavy Snow Event. Scott M. Rochette, SUNY Brockport, Brockport, NY, and Thomas A Niziol, NOAA/NWS Forecast Office, Buffalo, NY.

P2.16 The NWS Weather Forecast Office (WFO) Threat Assessment of Hazardous Weather. David Sharp, Mathew Volker, Peter Blottman, Scott Spratt, David Jacobs, and Dennis Decker, NOAA/NWS Forecast Office, Melbourne, FL.

P2.17 An Easy Way to Convert Between Celsius and Fahrenheit - In Your Head! Charlie Parrish, Medford, OR.

P2.18 Improved Rainfall Predictions Pertaining to Land-falling Tropical Cyclone Gabrielle (2001) Based Upon Ingest of High-Resolution Observational Data and MM5 Integrations. Krishnaraj Santhanam, Saint Louis University, Saint Louis, MO, and Scott M. Spratt and Bartlett C. Hagemeyer, NOAA/NWS Forecast Office, Melbourne, FL.

P2.19 The Latest Enhancements to the Galileo Weather System. Kenneth Reeves and Michael Steinberg, AccuWeather, Inc., State College, PA.

P2.20 Flash Internet Forecasts Delivered by Your Caricature. Kenneth Reeves, James T. Candor, and Michael Steinberg, AccuWeather, Inc., State College, PA.

P2.21 Examination of Recent Windstorms in the Inland Northwest. Matt Fugazzi and John Livingston (NWA Councilor), NOAA/NWS Forecast Office, Spokane, WA.

P2.22 Large-Scale Regime Transition and Its Relationship to Significant Cool-Season Precipitation Events in the Northeast. Heather M. Archambault, Lance F. Bosart, Daniel Keyser, and Anantha R. Ayyer, SUNY Albany, Albany, NY, and Richard Grumm, NOAA/NWS Forecast Office, State College, PA.

1130 AM Lunch on Your Own

SESSION V - WINTER WEATHER

Session Chair: John Scala (NWA Councilor), Millersville University, Millersville, PA.

0100 PM Insights into Columbia Gorge Gap Flow Through High Resolution Simulations of Actual and Idealized Events. Justin Sharp, Bonneville Power Administration, Portland, OR, and Cliff Mass, University of Washington, Seattle, WA.

0115 PM Convective Snow Forecasting: Lessons Learned from the Winter of 2003-2004. Patrick S. Market, Brain P. Pettegrew, Chris J. Melick, and Rebecca L. Ebert, University of Missouri-Columbia, Columbia, MO.

0130 PM Analysis of Two Mesoscale Snow Bands in Atypical Synoptic-Scale Flow Regimes. Martin Baxter, Sam Ng, James T. Moore (NWA Councilor and Past President), and Charles Graves, Saint Louis University, Saint Louis, MO.

0145 PM Examination of a Significant Convective Snow Event Using the RUC and NCEP 8-Km NMM. Chris Melick and Patrick S. Market, University of Missouri-Columbia, Columbia, MO, Michael Bodner, NOAA/NWS/ Hydrometeorological Prediction Center, Camp Springs, MD, and Brian P. Pettegrew and Rebecca L. Ebert, University of Missouri-Columbia, Columbia, MO.

0200 PM A Case Study of an Anomalous Long Lived Convective Snowfall Event. Rebecca L. Ebert and Patrick S. Market, University of Missouri-Columbia, Columbia, MO, and Michael Bodner, NOAA/NWS/Hydrometeorological Prediction Center, Camp Springs, MD.

0215 PM The Automated Real-time Road Weather System (ARROWS) for Highway Maintenance Decision Makers. Ed Boselly, Washington State Department of Transportation, Olympia, WA.

0230 PM Refreshment Break; Exhibits open in the Pacific NW Ballroom

0300 PM Workshop I: Aviation (TAF) (Ross Island & Morrison Rooms). Tim Oram (Co-Chair NWA Aviation Weather Committee), NOAA/NWS/Spaceflight Meteorology Group, Houston, TX.

Workshop II: Toward Better Utilization of Satellite Information (Multnomah Room). Gary S. Wade, NOAA/NESDIS/ORA/ARAD/Advanced Satellite Products Team, Madison, WI.

0500 PM Dinner on your own; Exhibits close

0600 PM NWA Council and Committee Chairs Business Dinner Meeting (Broadway Room)

Wednesday, 20 October 2004 - Annual Meeting
General Sessions (Multnomah room unless otherwise specified)

0730 AM NWA Registration and Information Desk opens in the foyer of the Multnomah Room (First Level of the Hotel).

0800 AM *Map Briefing*

0815 AM Special Interest Talk. A Review of Ten Significant Weather Events Occurring in 2003. Greg Carbin, NOAA/NWS/ Storm Prediction Center, Norman OK.

SESSION VI - HYDROLOGY/QPF

Session Chair: Roderick A. Scofield (NWA Past President), NOAA/NESDIS/ORA, Camp Springs, MD.

0845 AM Regional Graphics from the Southern Region River Forecast Centers. David Reed, NOAA/NWS/LMRFC, Slidell, LA.

0900 AM A Report on the Use of the Multisensor Precipitation Processing System Software at the West Gulf River Forecast Center. Gregory J. Story, NOAA/NWS/WGRFC, Fort Worth, TX.

0915 AM Mesoscale Convective System Initiation and Propagation Characteristics During the 18-19 May 2004 Kansas City Flash Flood. Adam Pasch, Michael Paddock, James T. Moore (NWA Councilor and Past President), and Charles Graves, Saint Louis University, Saint Louis, MO.

0930 AM A System for National 3-D Mosaic and Multisensor Quantitative Precipitation Estimates. Steve Vasiloff and Kenneth Howard, NOAA/NSSL, Norman, OK, Jian Zhang and Jonathan J. Gourley CIMMS/ University of Oklahoma, Norman, OK, and Dongjun Seo, NOAA/NWS/OHD/HRL, Silver Spring, MD.

Wednesday, 20 October 2004 *continued*

0945 AM Quantitative Precipitation Nowcasting: Coming Soon?

Neil I Fox, University of Missouri-Columbia, Columbia, MO.

1000 AM Coffee Break; Exhibits Open in Pacific NW Ballroom (exhibits close after 1100 AM)

SESSION VII - TRAINING, EDUCATION, RESEARCH

Session Chair: Gail Hartfield, NOAA/NWS Forecast Office, Raleigh, NC.

1030 AM Students in an Operational Context to See Climate, Environment, and Reality. Paul J. Croft (NWA President), Kean University, Union, NJ.

1045 AM COMET Hydrometeorology Training: A Look Toward 2010. Gregory Byrd, Douglas Wesley, Timothy Spangler, Wendy Schreiber-Abshire, and Matthew Kelsch, UCAR-COMET, Boulder CO

1100 AM A Positive Reinforcement Approach to Severe Weather Safety Education. Daniel J. Miller and Richard D. Smith, NOAA/NWS Forecast Office, Norman, OK.

1115 AM The Weather Research and Forecast Model in the NWS Weather Forecast Office (WFO). Patrick T. Welsh, NOAA/NWS Forecast Office, Jacksonville, FL.

1130 AM NWA Annual Awards Luncheon
(Holladay Room)

SESSION VIII - CLIMATE

Session Chair: Alan Sealls (NWA Councilor), WKRG-TV, Mobile, AL.

0200 PM Climate Service Partnership Activities at NOAA's National Climatic Data Center. Tim Owen, NOAA/NESDIS/NCDC, Asheville, NC.

0215 PM Issues in Mapping Climate at Multiple Time and Space Scales. Greg Johnson, USDA-NRCS, Portland OR, Chris Daly and George Taylor, Oregon State University, Corvallis, OR, and Phil Pasteris, USDA-NRCS, Portland, OR.

0230 PM Snowpack Trends in the Western U.S. Phil Mote, University of Washington, Seattle, WA.

0245 PM Using Climate Data to support Forecast Operations at NWS Forecast Office, Jackson, MS. John P. Gagan, Eric E. Carpenter, and Jeffrey P. Craven (NWA Councilor), NOAA/NWS Forecast Office, Jackson, MS.

0300 PM Using Seasonal and Weekly Precipitation Patterns to Predict the Probability of Summer Drought and the Effects on Crop Yields Over Northwest Missouri. Patrick E. Guinan, and Anthony R. Lupo, University of Missouri-Columbia, Columbia, MO.

0315 PM Refreshment Break

0330 PM Workshop III: Western U.S. Severe Weather (Multnomah room). Doug Green, NOAA/NWS Forecast Office, Phoenix, AZ, Jon Mittelstadt, NOAA/NWS Forecast Office, Pendleton, OR, and Ronald Miller, NOAA/NWS Forecast Office, Spokane WA.

Workshop IV: Winter Weather (Ross Island & Morrison rooms). Scott Reynolds, NOAA/NWS Office, Upton, NY.

0500 PM Dinner on your own

0600 PM NWA Council Business Dinner Meeting (Morrison Room)

Thursday, 21 October 2004 – Annual Meeting General Sessions (Holladay Room)

0730 AM NWA Registration and Information Desk opens in the foyer of the Multnomah Room (First Level of the Hotel)

0800 AM Map Briefing

SESSION IX - SPECIAL SESSION: THE OPERATIONAL BENEFITS OF THE NEXT GENERATION OF ENVIRONMENTAL SATELLITES

Session Chair: Kenneth Carey, Mitretek Systems, Inc., Falls Church, VA.

0815 AM The NPOESS Preparatory Project (NPP). John M. Haas, The Aerospace Corporation, Silver Spring, MD, Gerard D. Wittman, Raytheon, Aurora, CO, John D. Cunningham, NPOES Integrated Program Office Director, Silver Spring, MD, Craig S. Nelson, General Dynamics Advanced Information Systems, Lakeville, NY.

0830 AM A Preview of Forecaster Imaging Applications From NPOESS. Thomas F. Lee, Steven D. Miller, Jeffrey D. Hawkins, and F.J. Turk, Naval Research Lab, Monterey CA.

0845 AM The GOES-R System Description. James J. Gurka, NOAA/NESDIS, Silver Spring, MD, and Timothy J. Schmit, NOAA/NESDIS/ORA, Madison, WI.

0900 AM Operational Benefits of the Advanced Baseline Imager (ABI) on Geostationary Operational Environmental Satellites (GOES)-R. Timothy J. Schmit, NOAA/NESDIS/ORA Madison, WI, James J. Gurka, NOAA/NESDIS, Silver Spring, MD, Mathew M. Gunshor, CIMSS/University of Wisconsin-Madison, Madison, WI, Paul Menzel, NOAA/NESDIS/ORA, Madison, WI, and Jun Li, CIMSS/University of Wisconsin-Madison, Madison, WI.

0915 AM MODIS Data in AWIPS: A Precursor of NPOESS and GOES -R Capabilities. Gary Jedlovec, NASA, Huntsville, AL, Stephanie L. Haines, University of Alabama at Huntsville, Huntsville, AL, Ronnie J. Suggs, NASA, Huntsville, AL, and Tom Bradshaw and Jason Burks, NOAA/NWS Forecast Office, Huntsville, AL.

0930 AM The Lightning Mapper Sensor. Dennis Buechler, University of Alabama Huntsville, Huntsville, AL, and Hugh Christian and Steve Goodman, NASA/MSFC, Huntsville, AL.

0945 AM The GOES-12 Imager Cloud Product. Anthony J. Schreiner and James A. Jung, CIMSS/University of Wisconsin-Madison, Madison, WI, Timothy J. Schmit and Jaime Daniels, NOAA/NESDIS/ORA, Madison, WI, and Wayne Felz, CIMSS/University of Wisconsin-Madison, Madison, WI.

1000 AM Coffee Break

SESSION X – RADAR/TECHNOLOGY

Session Chair: Liz Quotone (NWA Vice President), NOAA/NWS/Warning Decision Training Branch, Norman, OK.

1030 AM National Weather Service Digital Operations Concept. LeRoy Spayd, NOAA/NWS/OCWWS, Silver Spring, MD.

1045 AM Managing the Infrastructure of Meteorological Services Amidst Rapidly Evolving Technologies and User Needs: Systems Engineering, Management and Sustainment (SEMS) and the Air Force Weather Agency (AFWA). Richard S. Penc, Northrop Grumman Mission Systems, Bellevue, NE.

1100 AM AWIPS Local Data Ingest: LDAD Challenges and Issues. Timothy Oram, Tim Garner, and Brian Hoeth, NOAA/NWS/Spaceflight Meteorology Group, Houston, TX.

1115 AM Integrating Users into System Design: CASA, the Center for Collaborative Adaptive Sensing of the Atmosphere. Brenda Phillips, University of Massachusetts, Amherst, MA, Walter Diaz, University of Puerto Rico, Mayaguez, Puerto Rico, Kevin Kloesel, University of Oklahoma, Norman, OK, and Havidan Rodriguez and Bill Donner, University of Delaware, Newark, DE.

1130 AM A Four-Dimensional Radar Analysis Tool for AWIPS. Gregory J. Stumpf, CIMMS/University of Oklahoma and NOAA/NWS/MDL, Norman, OK, F. Thomas Filiaggi, NOAA/NWS/MDL, Silver Spring, MD, V. Lakshman, CIMMS/University of Oklahoma and NOAA/NSSL, Norman, OK, Woody Roberts, NOAA/FSL, Boulder, CO, and Stephan B. Smith, NOAA/NWS/MDL, Silver Spring, MD.

Thursday, 21 October 2004 *continued*

1145 AM AWIPS Detection and Warning Strategies Using Multiple Workspaces. Josh Korotky, NOAA/NWS Forecast Office, Coraopolis, PA.

1200 Noon Lunch on Your Own

SESSION XI - SEVERE WEATHER II

Session Chair: Jeffrey Craven (NWA Councilor), NOAA/NWS Forecast Office, Jackson, MS.

0130 PM Watch By County Status Update. Richard Okulski, NOAA/NWS/OCWWS, Silver Spring, MD, and Daniel McCarthy (NWA Councilor), NOAA/NWS/Storm Prediction Center, Norman OK

0145 PM Enhanced Convective Watch Products. Daniel McCarthy (NWA Councilor), Richard Thompson, and Joseph T. Schaefer (NWA Past President), NOAA/NWS/Storm Prediction Center, Norman, OK.

0200 PM Polygon Warnings - Sharpening the Focus of Service. Mike Coyne, NOAA/NWS/Southern Region Headquarters, Fort Worth, TX.

0215 PM 21st Century NWS Warning Communications - The Future of Warning Dissemination Is Here. Timothy W. Troutman, NOAA/NWS Forecast Office, Huntsville, AL, and Kenneth E. Graham and Faith D. Borden, NOAA/NWS Forecast Office, Birmingham, AL.

0230 PM Severe Thunderstorm Events and Solar Activity. Joseph T. Schaefer (NWA Past President), NOAA/NWS/Storm Prediction Center, Norman, OK, and Andrew R. Dean, CIMMS/University of Oklahoma and NOAA/NWS/Storm Prediction Center, Norman, OK.

0245 PM The Use of Guidance from the High Resolution Weather Research and Forecasting (WRF) Model to Forecast Severe Storms. Steven J. Weiss (NWA President-Elect), NOAA/NWS/Storm Prediction Center, Norman, OK, John S. Kain, CIMMS/University of Oklahoma and NOAA/NSSL, Norman, OK, Jason J. Levit, NOAA/NWS/Storm Prediction Center, Norman, OK, Michael E. Baldwin, CIMMS/University of Oklahoma and NOAA/NSSL, Norman, OK, and David R. Bright, NOAA/NWS/Storm Prediction Center, Norman, OK.

0300 PM Maintaining Operational Readiness in a Warning Environment: Development and Use of the Situation Awareness Display System (SADS). Liz Quoetone (NWA Vice President), NOAA/NWS/WDTB, Norman, OK, David L. Andra and Michael P. Foster NOAA/NWS Forecast Office, Norman, OK, and Ed Mahoney, NOAA/NWS/WDTB, Norman, OK.

0315 PM MCV-Induced Severe Weather Event of July 21, 2003 Across Pennsylvania. John R. Scala (NWA Councilor), Millersville University, Millersville, PA, Christopher Hain, University of Alabama at Huntsville, Huntsville, AL, and Kevin Lipton, NOAA/NWS Forecast Office, State College, PA.

0330 PM The Role of the Planetary-Scale Flow Regime in the May 2003 Tornado Outbreaks: How Unusual was the Situation? Andrew R. Kunz and Anthony R. Lupo, University of Missouri-Columbia, Columbia, MO.

0345 PM Closing Remarks: NWA President Dr. Paul J. Croft and President-Elect Steven J. Weiss.

0400 PM NWA 29th Annual Meeting Adjourns

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